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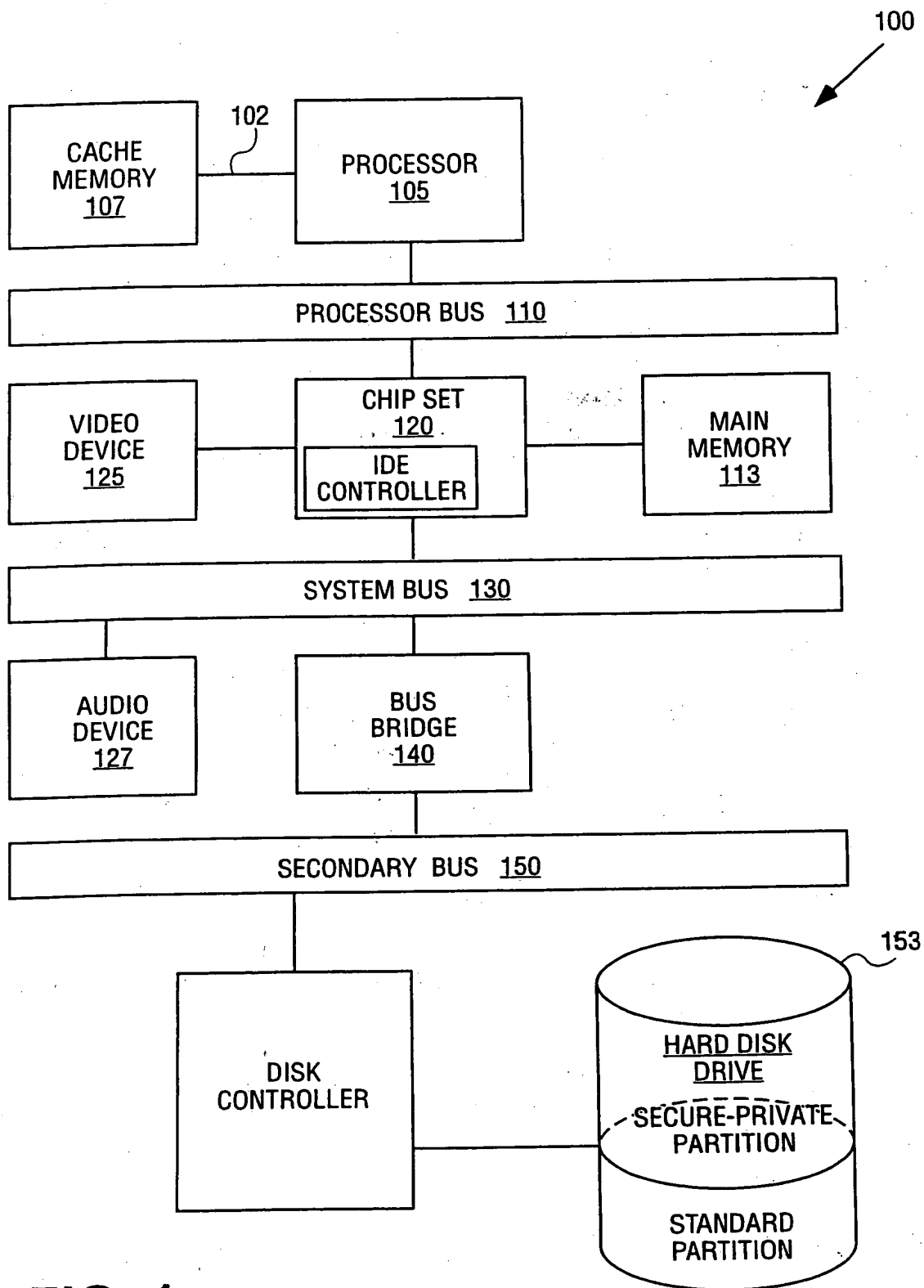


FIG. 1

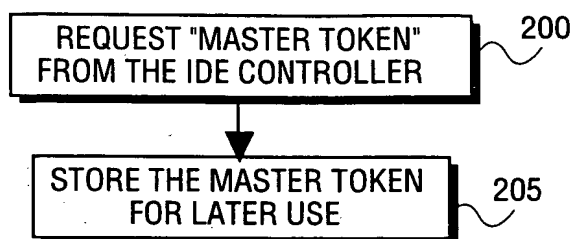
[illegible]

FIG. 2A

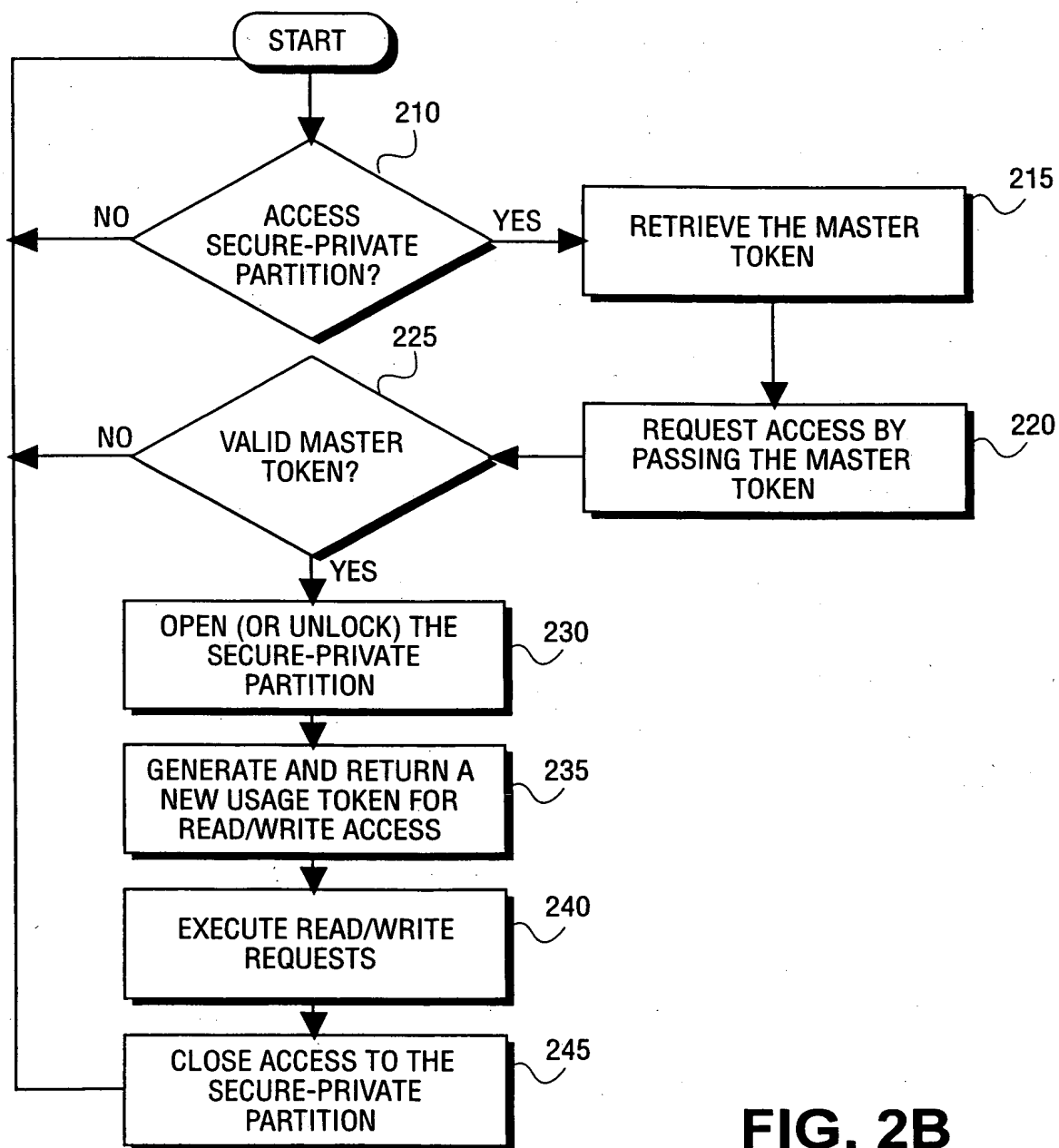


FIG. 2B

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graph TD
    300[SUBMIT A READ/WRITE REQUEST] --> 305[PASS THE USAGE TOKEN TO THE IDE CONTROLLER]
    305 --> 310{VALID USAGE TOKEN?}
    310 -- NO --> 315[RETURN AN ERROR MESSAGE]
    315 --> 300
    310 -- YES --> 320[ALLOW THE READ/WRITE REQUEST]
    320 --> 323[GENERATE AND RETURN A NEW USAGE TOKEN]
    323 --> 325{CLOSE THE SECURE-PRIVATE PARTITION?}
    325 -- YES --> 330[PASS THE USAGE TOKEN TO THE IDE CONTROLLER]
    330 --> 335{VALID USAGE TOKEN?}
    335 -- NO --> 325
    335 -- YES --> 340[CLOSE ACCESS TO THE SECURE-PRIVATE PARTITION]
    340 --> 345[CLEAR THE USAGE TOKEN]
    345 --> 300

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FIG. 3

FIG. 3

The diagram illustrates a system architecture for security and privacy. A dashed box labeled 400 represents the **SECURITY/PRIVACY SYSTEM**. Inside this system, a **PRIVACY GATE KEEPER** (402) is connected via a bidirectional arrow to a **SECURITY/PRIVACY SOFTWARE TASK** (404). The software task (404) contains two sub-components: a **MASTER TOKEN** (408) and a **USAGE TOKEN** (406). Outside the dashed box, a **REQUESTING SOFTWARE** (414) contains a **SECURE TOKEN** (412). Bidirectional arrows (432, 434, 436) connect the **SECURE TOKEN** (412) to the **PRIVACY GATE KEEPER** (402). Below the dashed box, an **IDE CONTROLLER** (410) is connected to the **SECURITY/PRIVACY SOFTWARE TASK** (404) via a bidirectional arrow (430). The **IDE CONTROLLER** (410) is also connected to a **DISK CONTROLLER** (418) via a bidirectional arrow (416). The **DISK CONTROLLER** (418) is part of a **HARD DISK DRIVE** (422) and manages two partitions: a **SECURE-PRIVATE PARTITION** (420) and a **STANDARD PARTITION**. Data flow is indicated by arrows: 424 and 426 show data moving from the **IDE CONTROLLER** (410) to the **SECURITY/PRIVACY SOFTWARE TASK** (404); 428 shows data moving from the **SECURITY/PRIVACY SOFTWARE TASK** (404) to the **IDE CONTROLLER** (410).

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